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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,933	11/20/2003	Jeffrey Roland Yon	JAB-1529-USACON2	5158
27777	7590	07/09/2007	EXAMINER	
PHILIP S. JOHNSON JOHNSON & JOHNSON ONE JOHNSON & JOHNSON PLAZA NEW BRUNSWICK, NJ 08933-7003			JIANG, DONG	
ART UNIT		PAPER NUMBER		
1646				
MAIL DATE		DELIVERY MODE		
07/09/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/718,933	YON ET AL.	
	Examiner	Art Unit	
	Dong Jiang	1646	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 22 May 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 2,3,8-10,19 and 20 is/are pending in the application.
- 4a) Of the above claim(s) 20 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 2, 3, 8-10 and 19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 2,3,8-10,19 and 20 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED OFFICE ACTION

Applicant's amendment filed on 22 May 2007 is acknowledged and entered. Following the amendment, claims 2, 9, 10 and 19 are amended.

Currently, claims 2, 3, 8-10, 19 and 20 are pending, and claims 2, 3, 8-10 and 19 are under consideration.

Note, the status identifier of claim 20 should be "Withdrawn". Correction is required.

Withdrawal of Objections and Rejections:

The rejection of claim 10 under 35 U.S.C. 101 for being directed to non-statutory subject matter is withdrawn in view of applicant's amendment.

The rejection of claims 9 and 10 under 35 U.S.C. 112, second paragraph, as being indefinite is withdrawn in view of applicant's amendment.

Formal Matters:

Applicant is advised that should claim 2 be found allowable, claim 8 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Rejections under 35 U.S.C. §101 and §112:

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 2, 3, 8-10 and 19 remain rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific and substantial asserted utility or a well

established utility, for the reasons of record set forth in the last Office Action mailed on 22 December 2006, at pages 3-6.

Applicants argument filed on 22 May 2007 has been fully considered, but is not deemed persuasive for reasons below.

At page 5-6 of the response, the applicant argues that the examiner has the initial burden of challenging an asserted utility, that the specification discloses that a number of pathologies are associated with acetylcholine receptors; acetylcholine receptors are made up of subunits; an understanding of the subunits would help better understand each subunit's role in acetylcholine receptor activity; the present inventors have cloned a novel human acetylcholine receptor subunit, and that the Office Action has not provided evidence to doubt that this information has a defined utility. This argument is not persuasive because, while the examiner acknowledges the disclosed information, it does not define a substantial utility for the claimed nucleic acid of SEQ ID NO:1, or the encoded polypeptide of SEQ ID NO:2 as, for example, said information does not provide specific links between any pathology, biological significance or functional activity and the claimed nucleic acid and/or the encoded polypeptide. Therefore, there is no evidence of record or any line of reasoning that would support the asserted utility that said α 10 or modulatory agents thereof were useful for treatment of any disorders as stated in the specification. Further, with respect to "acetylcholine receptors are made up of subunits", the specification does not discloses what acetylcholine receptors comprise said α 10 subunit. Without such knowledge, it is impossible to even speculate the biological significance of the subunit as the subunit composition is highly variable across different tissues, and while the nAchR is permeable to Na^+ and K^+ , some subunit combinations are also permeable to Ca^{++} , indicating distinct biological significance for different subunit combinations. Furthermore, with respect to "an understanding of the subunits would help better understand each subunit's role in acetylcholine receptor activity" (indicating the use as a research tool), according to MPEP, "labels such as 'research tool,' ... are *not helpful* in determining if an applicant had identified a specific and substantial utility for the invention" (MPEP 2107.01).

The following is a quotation of the first paragraph of 35 U.S.C. 112:

Art Unit: 1646

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 3, 8-10 and 19 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility, for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention, for the reasons of record set forth in the last Office Action mailed on 22 December 2006, at page 6, and for the reasons above.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 19 remains rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, for the reasons of record set forth in the last Office Action mailed on 22 December 2006, at page 7.

Claim 19 recites the limitation "The DNA molecule of claim 8" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Conclusion:

No claim is allowed.

Advisory Information:

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Dong Jiang whose telephone number is 571-272-0872. The examiner can normally be reached on Monday - Friday from 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol, can be reached on 571-272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



LORRAINE SPECTOR
PRIMARY EXAMINER

Dong Jiang, Ph.D.
Patent Examiner
AU1646
6/28/07